BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work:- Developments of roads and drains at Maruthi Nagara 4th Main and cross roads, Basaveshwara Nagara, Shivanahalli and surrounding areas in [illegible] ward No-01 of Yelahanka Division (Package No-07)

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount (Rs)
1	**Removing and refixing stone** slabs of drains and pointing in CM (1:3) Page No. 27/ Item No. 5.33/ PWD SR 2018-19								
		Sqm							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						318.29		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						2292.00		
							2610.28	111.30	290524.55
	Basic Rate	105.00							
	Area Weightage @ 6 %	6.30							
	Total Rate	111.30							
3	KSRRB 300-3. **Earthwork excavation** by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 143/ Item No. 19.1/ PWD SR 2018-19								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						1465.54		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						1339.94		
							2805.48	209.07	586554.26
	Basic Rate	130.00							
	Loading & Unloading	57.00							
	Add for Lead of earth (1.28 Tonne/ Cum) 4km	10.24							
	Area Weightage @ 6 %	11.83							
	Total Rate	209.07							
2	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6. (P. No. 14/ I.No. 4.13 of CSR 2015-16)								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						48.78		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						163.23		

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount (Rs)
							212.01	6245.52	1324112.70
	Basic Rate	5892.00							
	Area Weightage @ 6 %	353.52							
	Total Rate	6245.52							
4	KSRB 2.8 : Providing and **Filling in foundation with granite / trap broken metal 100mm.** and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS 2.10.2 KPWD S.R 2018-19 Page No. 7 I.No. 2.15								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						2.37		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						0.00		
							2.37	2574.74	6112.02
	Basic Rate	2429.00							
	Area Weightage @ 6%	145.74							
	Total	2574.74							
5	Providing Nominal **40mm size stone** aggrigates (Page no II, SI NO.25)Code NO.0750								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						2.37		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						0.00		
							2.37	1091.43	2590.88
	Basic Rate	1091.43							
	Total	1091.43							
6	Providing Nominal **20mm size stone** aggrigates (Page no II, SI NO.28) Code NO.0749								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						2.37		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						0.00		
							2.37	1091.43	2590.88
	Basic Rate	1091.43							
	Total	1091.43							
7	KSRB 7.9 : Providing And fixing **ms grill work** for windows and ventilators using ms flats or ms square rods or combination of ms flats and square rods as per approved design drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer cost of materials fixtures, labours, and complete as per specifications page no.34 item no.7.9								
		Kgs							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						211.68		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						0.00		

Sl. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount (Rs)
	Basic Rate	95.00					211.68	100.70	21316.18
	Area Weightage @ 6%	5.70							
	Total	100.70							
8	KSRRB M2900-1. **Plain cement concrete 1:3:6** mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No. 408 KPWD S.R 2018-19 Page No. 254 I.No. 34.1								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						213.59		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						31.95		
							245.54	4479.56	1099888.76
	Basic Rate	4226.00							
	Area Weightage @ 6 %	253.56							
	Total Rate	4479.56							
9	Providing and laying plain/reinforced cement concrete for side drains using **M20** nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.**Wall & bottom thickness 15cm** KPWD S.R 2018-19 Page No. 271 I.No. 37.59.2								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						338.77		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						82.12		
							420.89	7070.20	2975794.15
	Basic Rate	6670.00							
	Area Weightage @ 6 %	400.20							
	Total Rate	7070.20							
10	KSRRB M2200-6. Providing **T.M.T.** steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & **2200 TMT Bars Fe 550**(P-229/28.8.3) PWD SR 2018-19								
		Tn							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						21.68		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						6.75		
							28.42	72940.72	2073288.54

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount (Rs)
	Basic Rate	68812.00							
	Area Weightage @ 6 %	4128.72							
	Total Rate	72940.72							
11	Providing & laying **precast drain cover slab of 100 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.60 x 0.1)Data rate								
		Sqm							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						1330.28		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						1980.87		
							3311.15	**2337.00**	**7738149.37**
	Data Rate	2337.00							
12	Providing & laying **precast drain cover slab of 250 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25)Data rate								
		Sqm							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						89.64		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						118.44		
							208.08	**5418.00**	**1127377.44**
	Data Rate	5418.00							
13	Providing and fixing pre cast solid cement concrete **kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
		No's							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						8173.33		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						1881.78		
							10055.11	**432.48**	**4348634.45**
	Basic Rate	408.00							
	Area Weightage @ 6 %	24.48							
	Total Rate	432.48							
14	KSRRB 800-1. Painting **two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No. 180/ Item No. 24.1/ PWD SR 2018-19								
		Sqm							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						1103.40		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						254.04		

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount (Rs)
							1357.44	84.80	115110.91
	Basic Rate	80.00							
	Area Weightage @ 6 %	4.80							
	Total Rate	84.80							
	ASPHALT ROAD								
15	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(pg no-146,S.Lno-19.56)KPWD S.R 2018-19								
		sqm							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						0.00		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						1232.00		
							1232.00	52.19	64303.50
	Basic Rate	39.00							
	Add for Lead of earth (1.28 Tonne/ Cum) 8km	10.24							
	Area Weightage @ 6 %	2.95							
	Total Rate	52.19							
16	KSRRB M300-14. **Excavation for roadwork** in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						577.00		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						399.00		
							976.00	54.31	53010.85
	Basic Rate	41.00							
	Add for Lead of earth (1.28 Tonne/ Cum) 4km	10.24							
	Area Weightage @ 6 %	3.07							
	Total Rate	54.31							
17	Construction of **granular sub-base Grading-V** as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications. Clause 401 of MORTH V Revision. Page No. 153/ Item No. 20.5/ PWD SR 2018-19								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						173.10		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						236.55		

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount (Rs)
							409.65	1994.92	817218.98
	Basic Rate	1882.00							
	Area Weightage @ 6 %	112.92							
	Total Rate	1994.92							
18	KSRRB M600-1. Construction of **dry lean cement** concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site,								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						344.43		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						199.50		
							543.93	3800.10	2066988.39
	Basic Rate	3585.00							
	Area Weightage @ 6 %	215.10							
	Total Rate	3800.10							
19	constructing un-reinforced, plain cement Pavements using **Grade M-30** over a prepared base with OPC 360 kg/cum coarse aggregate at 0.69cum, fine aggregates at 0.46cum, Coarse and fine aggregate confirming to IS:383-2016 with Superplastizer at 3lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micronthick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						344.43		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						199.50		
							543.93	5210.96	2834397.47
	Basic Rate	4916.00							
	Area Weightage @ 6 %	294.96							
	Total Rate	5210.96							
18	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155/ Item No. 20.18/ PWD SR 2018-19								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						0.00		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						43.09		

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount (Rs)
							43.09	2001.28	86227.15
	Basic Rate	1888.00							
	Area Weightage @ 6 %	113.28							
	Total Rate	2001.28							
19	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge. Page No. 158/ Item No. 21.6/ PWD SR 2018-19 Issue Rates								
		Sqm							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						638.00		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						316.79		
							954.79	29.68	28338.17
	Basic Rate	28.00							
	Area Weightage @ 6 %	1.68							
	Total Rate	29.68							
20	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. Clause 505 of morth V revision using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen. Page No. 160/ Item No. 21.17.6/ PWD SR 2018-19 Issue Rates								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						31.90		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						225.75		
							257.65	6407.70	1650930.93
	Basic Rate	6045.00							
	Area Weightage @ 6 %	362.70							
	Total Rate	6407.70							
21	KSRRB 500-2. **Cleaning the existing black** topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 Page No. 158/ Item No. 21.2/ PWD SR 2018-19								
		Sqm							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						638.00		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						11994.77		
							12632.77	5.30	66953.68
	Basic Rate	5.00							

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount (Rs)
	Area Weightage @ 6 %	0.30							
	Total Rate	5.30							
22	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 158/ Item No. 21.7/ PWD SR 2018-19 Issue Rates								
		Sqm							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						638.00		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						11994.77		
							12632.77	12.72	160688.83
	Basic Rate	12.00							
	Area Weightage @ 6 %	0.72							
	Total Rate	12.72							
23	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. -using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen (Pg:162, It.No-21.22.6 PWD SR:2018-19)Issue Rates								
		Cum							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						25.52		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						479.79		
							505.31	7355.34	3716732.74
	Basic Rate	6939.00							
	Area Weightage @ 6 %	416.34							
	Total Rate	7355.34							
24	KSRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No. 182/ Item No. 24.15 PWD SR 2018-19								
		Sqm							
A	Development of balance roads and drains at Basaveshwara nagara , shivanahalli and sorrounding areas in kempegowda ward no - 01						29.00		
B	Comprehensive Development of Maruthinagara 4th main and Cross roads surrounding areas in Kempegowda ward no-01						510.32		
							539.32	454.74	245250.38
	Basic Rate	429.00							
	Area Weightage @ 6 %	25.74							
	Total Rate	454.74							

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount (Rs)
								Sub Total-A	33503086.18
	Technical Sanction							Tender Premium 5%	1,675,154.31
	Accorded For ...400.00 Lakhs							GST 12%	4,020,370.34
	Head of A/C..P-3075....							DPR 1%	400,000.00
	CER NO :.....113..... Dt:.28-08-2020							PMC 1%	400,000.00
								Miscellaneous	1,389.17
								Total	40,000,000.00

TA I CE (YNK)

VSR CIVIL INFRA PVT LTD BANGALORE

Consultant

Assistant Engineer
Ward No. 1

Asst Executive Engineer
Yelahanka Division

Executive Engineer
Yelahanka Division

Administrative Sanction for Rs. 400.00 Lakhs
(Four Crore rupees only)
is accorded under head P-3075
B'lore city incharge Minister
Discretionary Grants
Registered as CE No 75 Subject
to conditions contained in enclosed orders
No BBMP/EE(YNK/AS/75/20-21 Dt 17/1/2020
Executive Engineer